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ROUTING AND TRANSMITTAL SLIP Date

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. Paul		
2. Jerry		
3. Pat		
4.		
5.		

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

REMARKS

OC Briefing presented to D/L 8/22/84

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post) | Room No.—Bldg. | Phone No.

5041-102

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

☆ GPO : 1980 O - 311-156 (17)

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PROGRAM DEFINITION

° MAJOR REALIGNMENT AND UPGRADE OF ALL TELECOMMUNICATIONS SERVICES AT HEADQUARTERS

- NEW BUILDING
- OLD BUILDING

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PROJECTS

- NON-SECURE TELEPHONE
- SECURE TELEPHONE
- INTRA-BUILDING DISTRIBUTION
- INTER-BUILDING DISTRIBUTION
- TRANSMISSION SYSTEMS
- RF SHIELD
- COMMUNICATIONS OPERATIONS CENTER

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INTRA-BUILDING DISTRIBUTION

- TELEPHONES
- DATA (TERMINALS, GRAPHICS, SECURITY SENSORS, IMAGERY, ETC.)
- VIDEO
- RESPONSIVE TO USER NEEDS
  - "UNIVERSAL CONNECTIVITY"
  - EASE OF RELOCATION
  - EASE OF INSTALLATION
  - RELIABILITY, MAINTAINABILITY, AND AVAILABILITY
  - MIGRATION PATH TO FUTURE APPLICATIONS

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TRANSMISSION SYSTEMS

- UPGRADE AND RECONFIGURE LEASED FACILITIES
- IMPROVE SERVICE AND SURVIVABILITY
- REDUCE ANNUAL COST FOR LEASED TRANSMISSION SERVICES
- RECONFIGURE, IF NECESSARY, AGENCY OWNED TRANSMISSION FACILITIES
  - MICROWAVE RADIOS

STAT

  - VHF

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INTER-BUILDING DISTRIBUTION

- HATS AND LEASED SERVICES CURRENTLY PROVIDE CONNECTIVITY TO OUT-BUILDINGS
- NEW BUILDING WILL REQUIRE CONNECTIVITY FOR
  - NON-SECURE TELEPHONE
  - SECURE TELEPHONE
  - DATA
  - VIDEO

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COMMUNICATIONS OPERATIONS CENTER

- RELOCATE EXISTING COC
- INTEGRATE NEW SYSTEMS (MERCURY & MHF)
- REASONS FOR RELOCATION
  - OVER CROWDING
  - UNABLE TO EXPAND
  - CABLE ACCESS BLOCKED
  - EFFICIENCY
  - VULNERABILITY

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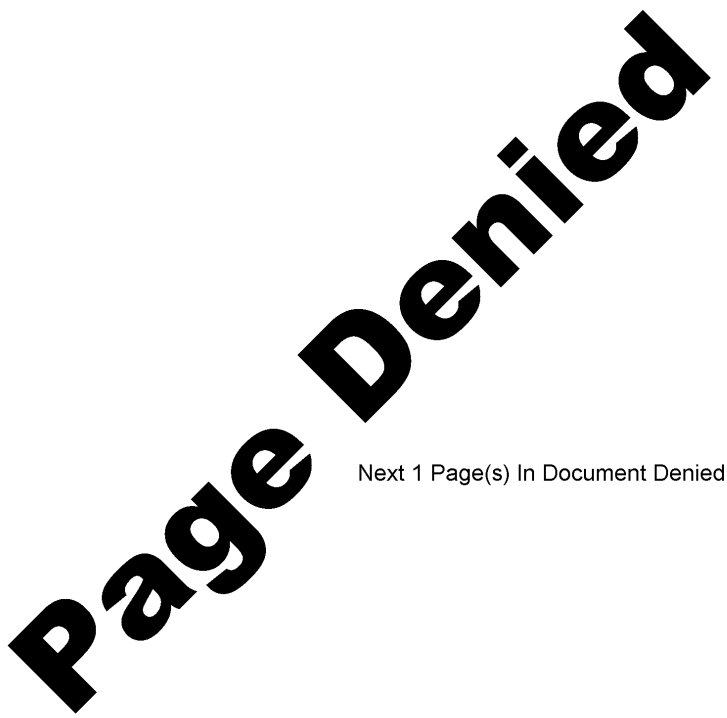

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PROJECT PHASES

PHASE I - REQUIREMENTS DEVELOPMENT AND ANALYSIS
EVALUATION OF ARCHITECTURAL ALTERNATIVES
SELECTION OF RECOMMENDED ARCHITECTURE

PHASE II - SYSTEM DESIGN
SPECIFICATION DEVELOPMENT
RFP PREPARATION
SOURCE SELECTION
CONTRACT AWARD

PHASE III - SYSTEM ACQUISITION

PHASE IV - SITE PREPARATION
INSTALLATION
TRAINING
ACCEPTANCE TESTING
OPERATIONAL ACTIVITIES

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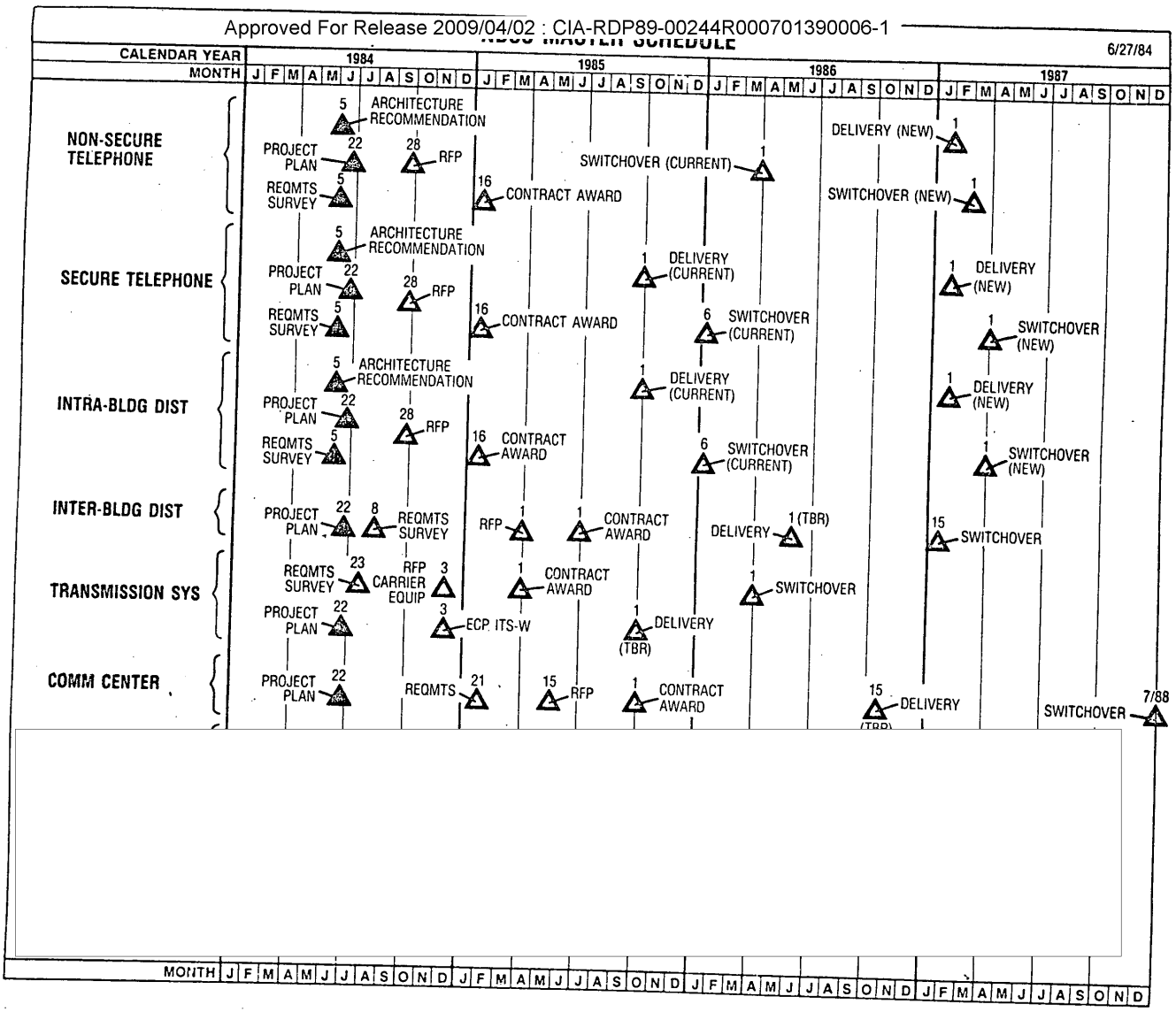

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RESULTS OF NON-SECURE AND SECURE TELEPHONE SYSTEM STUDY

- SYSTEMS WILL REMAIN SEPARATE (SECURITY)
- RECOMMENDED ALTERNATIVES
  - PROCURE NEW HARDWARE FOR SECURE SYSTEM & RE-UTILIZE EXISTING SECURE HARDWARE FOR NON-SECURE SYSTEM
  - PROCURE NEW HARDWARE FOR BOTH SYSTEMS
  - PROJECTED $1 MILLION DIFFERENCE IN LIFE CYCLE COST
- RFP WILL INCLUDE BOTH ALTERNATIVES
- FINAL SELECTION WILL BE BASED ON EVALUATION OF PROPOSALS (COST, SCHEDULE, RISK, ETC.)

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SECRET

LAN

LOCAL AREA NETWORK

°

INTRA-BUILDING COMMUNICATIONS PROJECT INCLUDES

COMMUNICATIONS ARCHITECTURE FOR

NEW BUILDING

RETROFIT FOR OLD BUILDING

GOALS:

STAT

MULTIPLE PROTOCOLS

MULTIPLE HOST CONNECTIONS

MULTIPLE DEVICE CHARACTERISTICS

EASE OF RELOCATION

EASE OF INSTALLATION

EXTENDABILITY FOR 20 YEAR CYCLE

FAULT ISOLATION EASE

SECRET

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ARCHITECTURE CANDIDATES

POINT TO POINT

- TWISTED WIRE PAIR
- COAXIAL CABLE
- FIBER OPTICS

PBX

- TWISTED WIRE PAIR
- FIBER OPTICS

BUS, RING, STAR OR OTHER NETWORK

- TWISTED WIRE PAIR
- COAXIAL CABLE
- FIBER OPTICS

SOME INTEGRATION OF THE ABOVE

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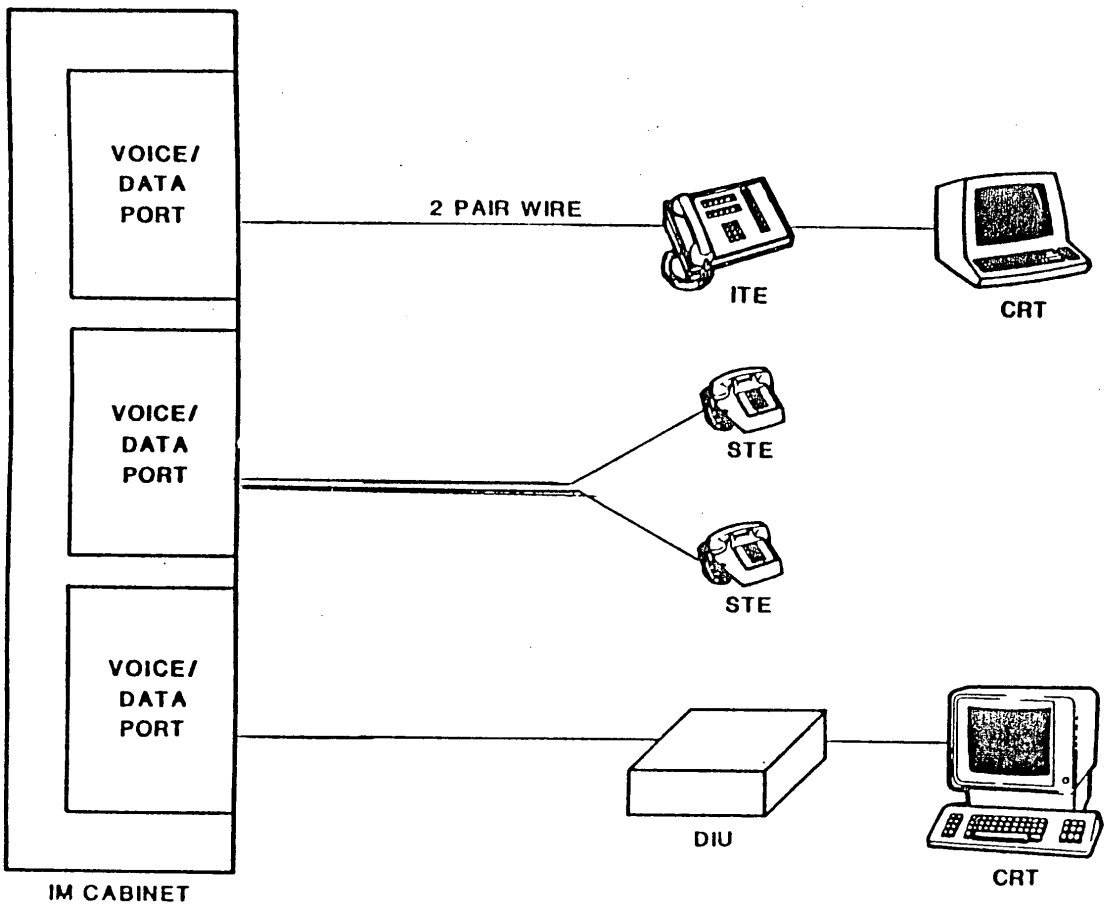
VOICE/DATA PORTS



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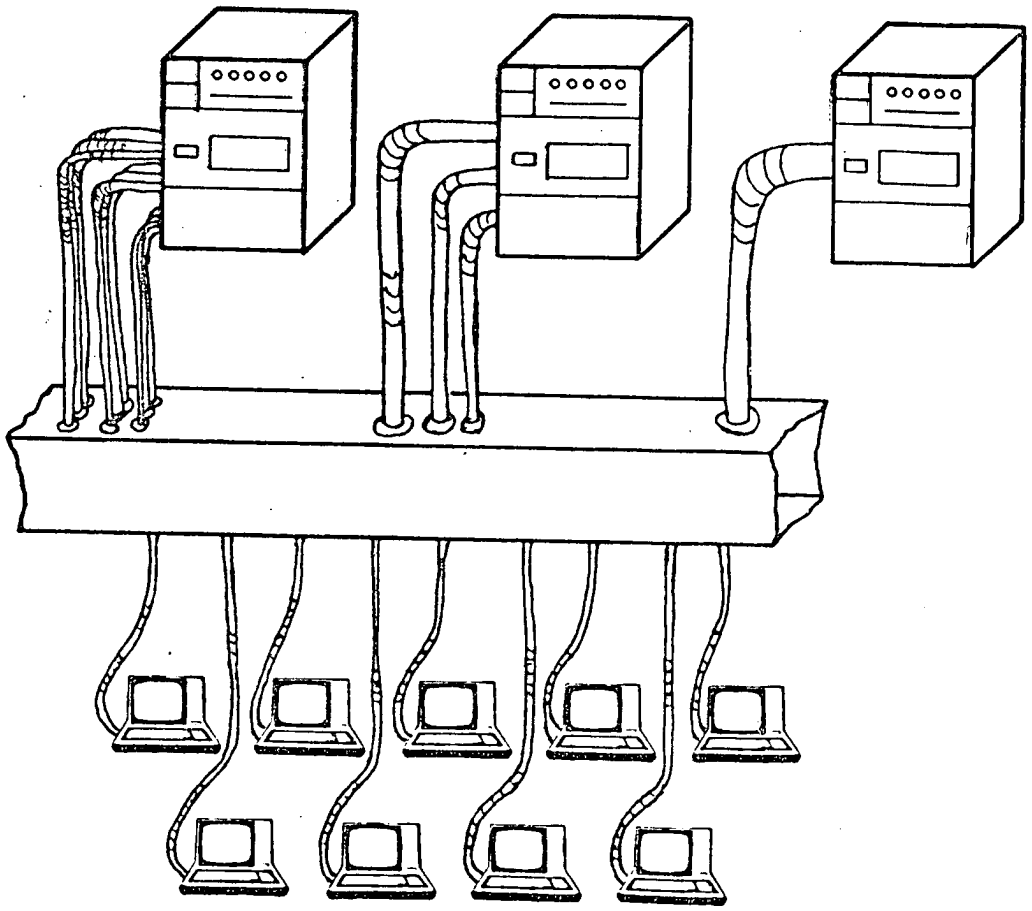

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PROGRAM STRATEGY

1987

USE DIGITAL PBX FOR VOICE AND DATA

INSTALL A FIBER OPTIC WIRING SCHEME PRODUCT ALONG WITH THE PHONE WIRES

INSTALL A VIDEO DISTRIBUTION SCHEME USING FIBER AS THE MEDIA

1988 - 1990

DEVELOP AND RELEASE RFP FOR FIBER LAN (FY-86)

TRANSITION HIGH SPEED REQUIREMENTS TO FIBER LAN

INTEGRATE LAN - PBX SUCH THAT DEVICES ON ONE CAN INTERCONNECT AND BE MANAGED WITH DEVICES ON THE OTHER

ADD TO THE VIDEO, PBX, LAN CAPABILITIES AS THE PRODUCTS ARE ENHANCED OR AS REQUIREMENTS DEVELOP

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ARCHITECTURE

PBX FOR PHONES/DATA

FIBER WIRING SCHEME

FIBER BASED LAN

VIDEO DISTRIBUTION SCHEME

MEETS

SECURE VOICE

EXISTING TERMINAL BASE

PLANNED TERMINAL BASE

FACSIMILE TRANSMISSION

CLUSTERED ARCHITECTURES

FILE SERVER ARCHITECTURES

WORD PROCESSOR ARCHITECTURES

GRAPHICS WORK STATIONS

VIDEO TRANSMISSION

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FEATURES

STATION FEATURES

- ABBREVIATED DIALING
- ACCOUNT CODES
- ALPHA-NUMERIC DISPLAY
- AUTHORIZATION CODES
- AUTOMATIC DIALING
- AUTOMATIC LINE PRE-SELECT
- BUSY OVERRIDE
- BUSY RECALL (CALL BACK)
- BUZZ/STATION STATUS
- CALL CONTROL (CLASS MARK)
- CALL FORWARDING
  - ALL CALLS
  - BUSY/NO ANSWER
- CALL HOLD CONSULTATION
- CALL PARK
- CALL PICK-UP
- CALL STATUS LAMPS
- CALL WAITING
- CONFERENCING
- DIRECT TRUNK TERMINATION
- DIAL INTERCOM
- DO NOT DISTURB
- GROUP LISTENING
- HOLD/HOLD EXCLUSIVE
- HOTLINE
- LAST NUMBER REDIAL
- 1A2 KEY SIMULATION
- PRIVACY RELEASE
- TRANSFER
- MULTIPLE APPEARANCE DIRECTORY LINES

GENERAL FEATURES

- MAXIMUM 16 MAN MACHINE CONSOLES
- MAXIMUM 6 DIRECTORY LOOK UP (DLS) TERMINALS
- ATTENDANT CONSOLE
- PRIMARY AND SECONDARY SYSTEM CONSOLES
- UNINTERRUPTIBLE POWER SUPPLY

SYSTEM FEATURES

- NUMBERING PLANS
  - -FLEXIBLE STATION NUMBERING PLAN (3,4 or 5 DIGITS)
  - -NETWORK NUMBERING PLAN (ACCESS CODE + 7 DIGITS)
  - -DIRECT DISTANCE DIALING ACCESS CODE + 10 DIGITS)
  - -INTERNATIONAL DIALING
  - -SATELLITE DIRECTORY NUMBERS (ACCESS CODE + 3, 4 or 5 DIGITS)
  - -SPEED NUMBERS (ACCESS CODE + 3 or 4 DIGITS)
- DIRECT INWARD DIALING
- CLASS OF SERVICE OPTIONS (255 MAX)
- USER GROUP PARTITIONING (1000 MAX)
- UNIFORM ALTERNATE ROUTING
- CALL DETAIL REPORTING
- DIRECTORY LOOK-UP SYSTEM
- VOICE RESPONSE UNIT
- PAGING ACCESS OPTION
- MUSIC ON HOLD OPTION
- REMOTE MAINTENANCE AND ADMINISTRATION OPTION
- IMMEDIATE RING
- EXCEPTIONAL CALL DURATION ALARM

DATA FEATURES

- SYNCHRONOUS TRANSMISSION
- ASYNCHRONOUS TRANSMISSION
- DATA CALL ORIGINATION
  - -VOICE INSTRUMENT
  - -KEYBOARD
  - -MACHINE
- DATA NUMBERING PLANS
- DATA FEATURES
  - -ABBREVIATED DIALING
  - -BUSY RECALL
  - -DATA ALTERNATE ROUTING (UAR)
  - -CALL PROGRESS MESSAGES
  - -DATA CLASS OF SERVICE
  - -DATA CALL DECALL RECORDING
  - -ECHO SUPPRESSOR CONTROL
  - -EXCEPTIONAL DATA CALL DURATION ALARM
  - -NAILED DATA CONNECTION
  - -HOTLINE SERVICE
  - -QUEUING
  - -TERMINAL TYPE CHANGE
  - -MODEM POOLING
  - -IPCS (FORMAT AND PROTOCOL CONVERSION)
    - --3270 IPC
    - --NP IPC
    - --X.25 IPC
    - --HKI IPC
  - -LANmark
    - --LANmark 3270
    - --LANmark ETHERNET

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LAN ISSUES

SECURITY

- NETWORK
- EMANATIONS

OLD BUILDING RETROFIT

UNKNOWN FUTURE TECHNOLOGIES

SCHEDULE FOR CONSTRUCTION

CONFIGURATION CONTROL

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OTHER ISSUES

PERFORMANCE

FLEXIBILITY

RELIABILITY

MAINTAINABILITY

AVAILABILITY

FUNDING PROFILE

COST

SCHEDULE

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SCHEDULE

RFI	MAY 1984
ARCHITECTURE DECISION	4 JUNE 1984
STRAWMAN DESIGN	29 JUNE 1984
BRIEF ODP	13 JULY 1984
BRIEF DIRECTORATES	19 JULY 1984
RFP DRAFT (LAN)	20 JULY 1984
RFP FINAL (LAN)	1 AUG 1984
ISSUE RFP	28 SEP 1984
RESPONSES	23 NOV 1984
AWARD	16 JAN 1985

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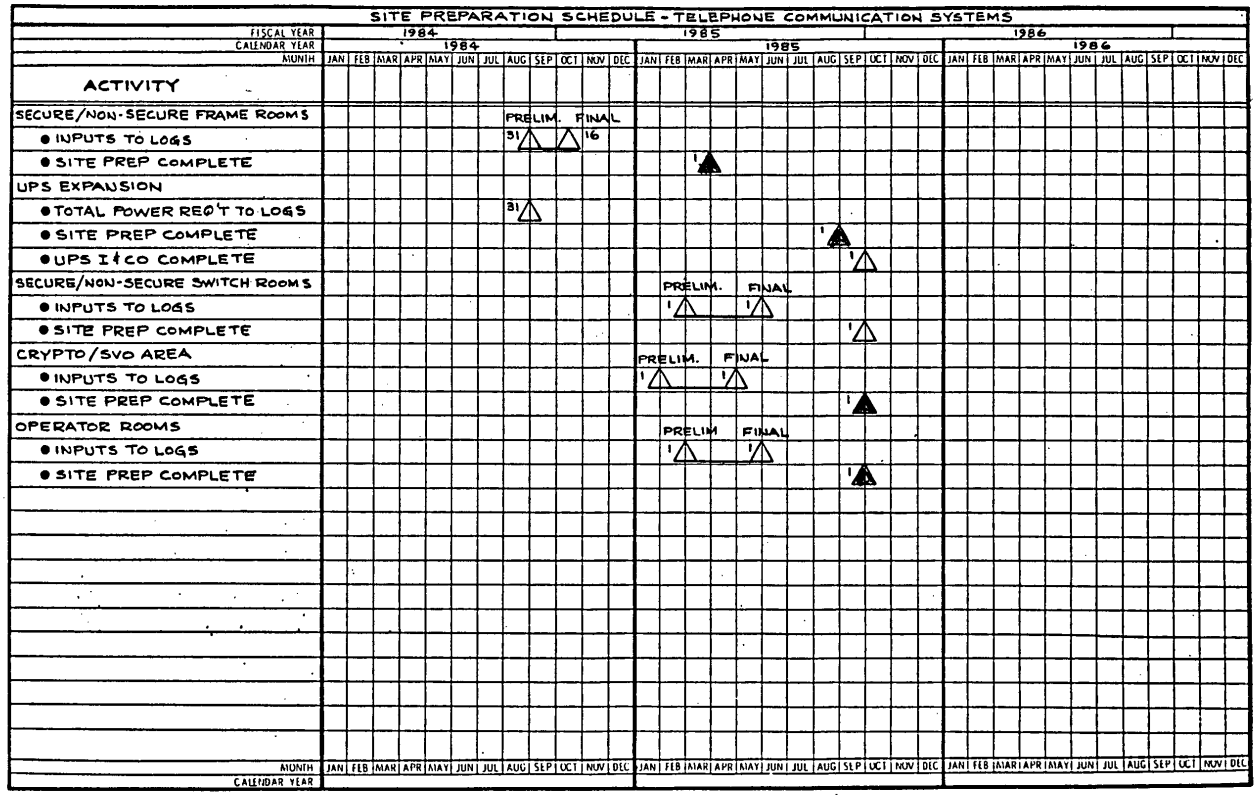

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